328 ROANOKE RIVER BASIN

02053800 SOUTH FORK ROANOKE RIVER NEAR SHAWSVILLE, VA

LOCATION.--Lat 37°08'28", long 80°15'55", (corrected), Montgomery County, Hydrologic Unit 03010101, on right bank 95 ft downstream from bridge on State Highway 637, 0.3 mi downstream from Georges Run, 1.3 mi downstream from Elliott Creek, and 2.0 mi southwest of Shawsville.

DRAINAGE AREA.--110 mi².

PERIOD OF RECORD. -- October 1960 to current year.

REVISED RECORDS.--WSP 2104: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,361.87 ft above sea level. Prior to Aug. 26, 1974, water-stage recorder, and Aug. 26, 1974, to July 24, 1975, nonrecording gage at site 95 ft upstream at same datum.

REMARKS.--Records good except those for period of no gage-height record, Oct. 1-13, and periods with ice effect, Dec. 24, 25, and Jan. 22 to Feb. 3, which are fair. Virginia Department of Emergency Services gage-height radio transmitter at station. Maximum discharge, 14,200 ft³/s, from rating curve extended above 3,700 ft³/s on basis of slope-area measurement of peak flow. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location by the Virginia Department of Environmental Quality - Water Division.

COOPERATION. -- Records were provided by the Virginia Department of Environmental Quality - Water Division.

EXTREMES OUTSIDE PERIOD OF RECORD. -- Flood of Sept. 30, 1959, reached a stage of 9.89 ft, from information by local resident.

 $\textbf{EXTREMES FOR CURRENT YEAR.--} \textbf{Peak discharges greater than base discharge of 800 ft}^3/\text{s and maximum (*)} : \\$

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr 18	0230	*1,190	*3.23	No other pea	k greate	er than base disc	harge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Minimum discharge, 21 ft^3/s , Aug. 22-27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e110	35	39	42	e43	68	67	108	39	45	45	146
2	e78	82	38	41	e44	66	65	103	36	36	53	120
3	e62	94	38	40	e41	62	75	93	34	32	53	146
4	e53	59	37	40	46	61	150	86	33	34	50	126
5	e55	51	36	45	45	60	138	83	36	45	48	221
6	e48	47	38	38	42	57	119	88	52	43	38	149
7	e45	45	37	37	43	54	102	79	41	33	33	93
8	e42	42	35	36	45	53	97	74	34	30	31	69
9	e40	41	34	46	46	52	93	70	32	28	30	56
10	e52	40	42	152	53	51	80	66	30	26	53	47
11	e56	39	56	173	65	61	74	62	28	27	37	41
12	e47	39	44	121	91	90	72	61	27	38	30	37
13	e42	37	45	96	79	70	67	58	27	36	28	34
14	41	37	169	78	108	63	68	54	37	31	26	32
15	39	36	173	66	115	61	72	52	59	29	25	32
16	37	35	118	63	101	61	71	50	62	27	24	29
17	37	34	89	59	88	78	256	49	49	27	23	27
18	38	34	74	55	196	65	986	49	38	24	24	27
19	37	33	65	53	338	61	492	47	35	28	25	99
20	49	33	67	56	248	292	293	45	40	45	23	58
21	53	32	67	45	176	631	213	46	35	29	22	40
22	43	34	64	e40	137	333	166	78	32	26	22	34
23	41	34	58	e35	114	214	138	53	30	40	21	35
24	39	33	e54	e41	100	162	122	48	27	78	21	33
25	37	33	e48	e37	90	133	173	49	26	57	22	42
26 27 28 29 30 31	37 36 35 35 34 34	63 72 51 45 42	50 51 48 46 44 44	e34 e31 e29 e33 e38 e45	82 79 84 72 	113 102 95 85 78 72	185 165 152 141 122	46 42 51 50 47 41	25 27 50 178 68	43 36 32 47 70 47	23 22 100 43 33 54	79 53 45 40 37
TOTAL MEAN MAX MIN CFSM IN.	1432 46.2 110 34 .42 .48	1332 44.4 94 32 .40 .45	1848 59.6 173 34 .54	1745 56.3 173 29 .51	2811 96.9 338 41 .88 .95	3504 113 631 51 1.03 1.18	5014 167 986 65 1.52 1.70	1928 62.2 108 41 .57 .65	1267 42.2 178 25 .38 .43	1169 37.7 78 24 .34 .40	1082 34.9 100 21 .32 .37	2027 67.6 221 27 .61

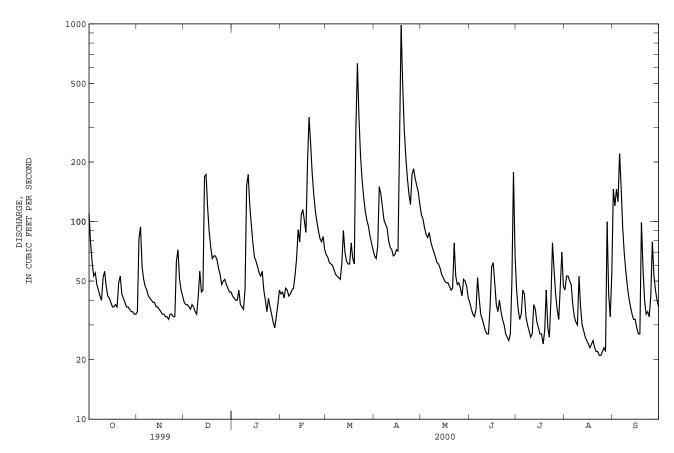
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02053800 SOUTH FORK ROANOKE RIVER NEAR SHAWSVILLE, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2000, BY WATER YEAR (WY)

OCT NOV	DEC JAN FEB	MAR APR MAY	JUN JUL AUG SEP
MEAN 72.3 90.0 MAX 294 407 (WY) 1972 1986 MIN 21.4 24.4 (WY) 1992 1982	98.7 137 167 232 299 523 1973 1996 1998 22.1 18.9 62.7 1966 1966 1999	210 185 134 571 750 334 1993 1987 1978 55.6 51.0 50.7 1981 1966 1963	99.8 57.7 53.1 63.9 483 205 174 347 1972 1972 1994 1989 24.0 20.6 17.4 17.8 1999 1966 1963 1968
SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1961 - 2000
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS	22907 62.8 1350 aSep 5 11 Aug 19 13 Aug 13 .57 7.75 113 44 19	25159 68.7 986 Apr 18 21 bAug 23 22 Aug 21 1190 Apr 18 3.23 Apr 18 21 dAug 22 .62 8.51 122 47 30	114 205 46.5 1981 6840 Jun 21 1972 7.5 Jul 28 1966 8.9 Jul 23 1966 14200 Jun 21 1972 cl1.12 Jun 21 1972 7.5 fJul 27 1966 1.03 14.03 218 70 28

Also July 28, 29, 1966.



Also Sept. 6, 1999. Also Aug. 24, 2000. From high-water mark in well. Also Aug. 23-27, 2000. Estimated.

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